SOV/21-59-12-1/20

Substantiation of the Method of Successive Reduction of the Order of Systems of Ordinary Differential Equations

are 3 references, 2 of which are Soviet and 1 American.

ASSOCIATION:

Instytut teploenerhetyky AN URSR (Institute of Thermal Power Engineering of the AS UkrSSR)

PRESENTED:

By Y.Z. Shtokalo, Member, AS UkrSSR

SUBMITTED:

March 27, 1959

Card 2/2

LAVRENT'YEV, P.A., prof.; KOZLOV, Ye.M., mladshiy nauchnyy sotrudnik; GVOZDKOVA, N.A., starshiy laborant

Prolongation of the insecticidal action of chlorophos. Veterinar'ia 41 no.8190-92 Ag 64. (MIRA 18:4)

1. Kazanskiy veterinarnyy institut.

KOZLOV, Ye.M. [Kozlov, IE.M.]

An improper integral in operational calculus. Dop. AN URER no.3: 263-265 '65. (MIRA 18:3)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti.

## "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825910

KOZLOV, Yevgeniy Prokop'yevich; MASHINA, G.K., red.

[Fromoters of technical progress] Zastrel'shchiki tekh-

nicheskogo progressa. Frunze, Kirgizskoe gos. izd-vo 1963. 42 p. (MIRA 19:1)

ACC NR: AP7009082

SOURCE CODE: UR.0413/67/000/003/0056/0056

INVENTOR: Medvedev, S. K.; Ginzburg, Ye. L.; Titov, M. M.; Kozlov, Ye. V.; Volkov, S. S.; Bocharov, G. A.

ORG: None

TITLE: A high-voltage pulse capacitor. Class 21, No. 190996 [announced by the Capacitor Design Branch of the All-Union "Order of Lenin" Electrical Engineering Institute im. V. I. Lenin (Filial po kondensatorostroyeniyu Vsesoyuznogo ordena Lenina elektrotekhnicheskogo instituta)]

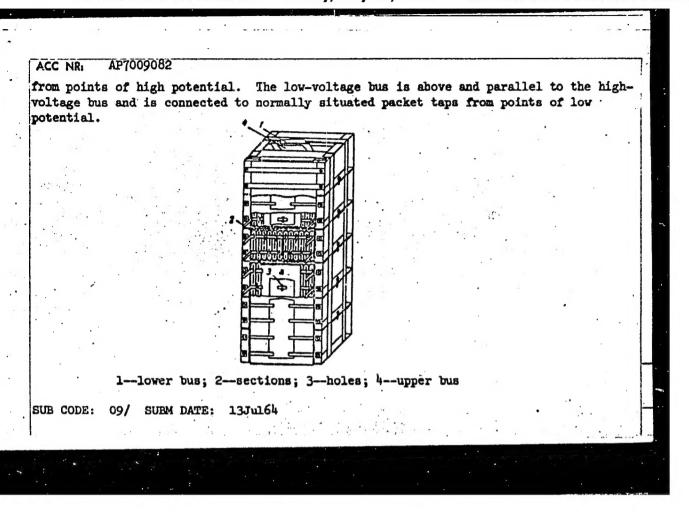
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1967, 56

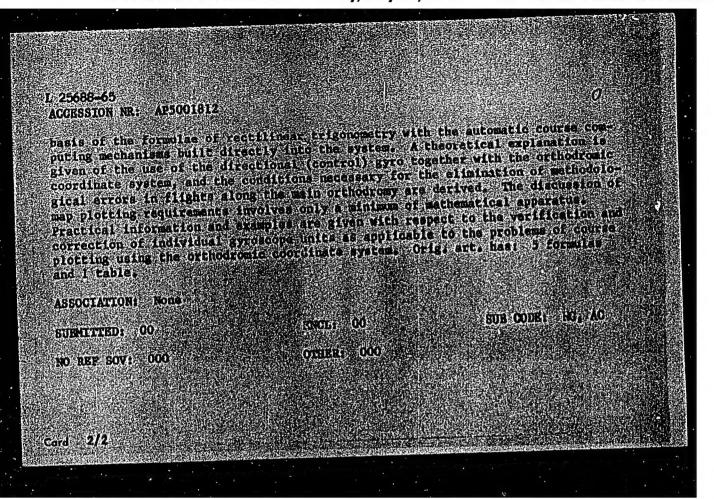
TOPIC TAGS: electric capacitor, pulse signal

ABSTRACT: This Author's Certificate introduces a high-voltage pulse capacitor equipped with insulating layers made from paper saturated with a liquid dielectric and plates of aluminum foil. The capacitor is made in the form of packets which are electrically and mechanically interconnected. These packets consist of plane-parallel pressed sections with the higher-potential sections located in the middle of the packet and the lower-potential sections at the ends. The leads are connected to accumulator buses. The capacitor is designed for reduced inductance with a simultaneous simplification of production technology. The high-voltage bus is parallel to the end surfaces of the section packets and has holes for passage of the packet taps connected to this bus

Card 1/2

IDC: 621,319,44





KOZLOV, Yu.A.; POLYAKOV, A.L.

New synthetic materials used in manufacturing transformers.

New synthetic materials used in manufacturing transformers.

(MIRA 13:3)

Biul. tekh. ekon. inform. no.9:50-53 '59. (MIRA (Resins, Synthetic) (Electric transformers)

KOZLOV, Yu.A., inzh.; POLYAKOV, A.L., inzh.; SOKOLOVA, S.L., inzh.

Cast insulation from MBK-1 compound for instrument transformers.

Vest.elektroprom. 31 no.2:12-17 F '60. (MIRA 13:6)

(Electric insulators and insulation)

(Electric measurements)

RCZLOV, Yu.A. (Vartemyaki Leningradskoy oblasti)

Problems on hydrostatics. Fiz. v shkole 23 no.5:73-74
S-0.163.

(MIRA 17:1)

KOZLOV, Yu. A.

First Kiev Madical Institute

"Increasing Antigenic Activity of Precipitated Diphtheria Anatoxin"

SOURCE: Mikrobiologichnyl Zhurnal, 7(1/2):125-38, 19h0

## "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825910

KOZLOV, Yu. A. and N. V. Kartseva (Scientific Research Institute of Epidemiology and Hygiene of the Red Army)

"Determination of Fermentative Activity of the Pancreas and Its Preparation in the Practice of Production of Tryptic Hydrolysates"

for determination of the quantity of fermentative preparation nedessary to obtain hydrolysates

(from ANIOTATIONS OF THE ARTICLES SUBMITTED TO THE EDITORIAL OFFICE)

50: hurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 6, pp.78-78-79, 1945

(T rans V831 (partial) by L. Lulich

KOZLOV, Yu. A. and Kartseva, E. V.
Scientific Research Institute of Epidemiology and Hygiene of the Red Army

"Experimental Preparation of Culture Media in Penicillin Production"

SOURCE: Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, 8-9: 57-59, 1946

KOZLOV, Yu. A.

Kozlov, Yu. A. and Chalisov, I. A. "Immunological and tissue characteristics of percutanecus immunization with dry sugar-gelatinagar NIIEG baccine from the HGG strain," Byulleten' In-ta tuberkuleza Akad. med. nauk SSSR, 1948, No. 4, p. 7-16

So: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 13, 1949)

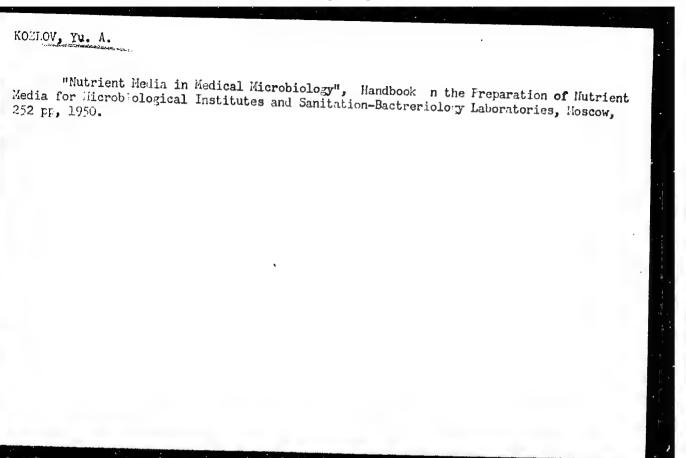
KOZLOV, Yu. A.	USSR/Wedicine - Infectious Diseases (Contd) (Contd)  of fresh liquid vaccine. Dry BCG vaccine prepd with NIEG drying media and kept for 1 yr at +2 - +4° surpasses dry glucose vaccine in its immuno- genic properties.	"Mikrobiologichniy Zhur" Vol XI, No 4, pp 74-00  Kozlov proposed in 1946 a dry BCG /Bacillus Calmette - Guerin/ vaccine prepd with the use of NIIEG media for drying. Allergizing properties of the dry saccharose-gelatine-agar BCG vaccine are superior to those of dry glucose vaccine after a yr of to those of dry glucose vaccine after to those storage at +2 to +4°. They are superior to those	USSR/Medicine - Infectious Diseases  "Immunogenic Properties of Dry Live Antituberculosis  "Immunogenic Prepared From a BCG Strain," Yu. A.  MIIEG Vaccine Prepared From a BCG Strain," Yu. A.  Kozlov, NIIEG KSci Res Inst of Epidemiol and  Rygiene)  Aum AL

APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000825910(

# "APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000825910



USSR/Medicine - Pood Poisoning

KOZLOV, YU. A.

Nov 52

"Review of Monograph 'Food Poisoning and Its Prophylaxis', by N. I. Orlov, Library of the Practicing Physician, Medgiz, 1952, 119 pp, 25,000 copies," (Yu. A. Kozlov, reviewer)

Gig i San, No 11, pp 60,61

Lauds the clear and concise style of the author and the up-to-date presentation of information on food poisoning of bacterial and nonbacterial origin. Objects to the brief treatment of Salmonella organisms and of their pathogenicity in producing toxic infections. Considers that to little space

264T35

is allocated to a discussion of Sonne dysentery bacilli as originators of toxic food infections, and does not quite agree with the author's treatment of the symptomatology and pathogenesis of toxic infections caused by Sonne bacilli.

"Alimentary toxic infections of a paratyphoid character." I.V.Shur.
Reviewed by IU.A.Korlov. Gig. i san. no.11:58-59 N '54. (MLRA 7:12)
(SHUR, I.V.)
(FOOD--BACTERIOLOGY)
(SAIMONELLA PARATYPHI)

# "APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000825910

KOZLOV, Yu. A.

V. K. Vysokovich (On the Oceasion of His 100th Birthday). Voyenno-meditsinskiy Zhurnal, Ho 1, p 86, 1955.

\*\*KOZLOV, Yu.A., polkovník meditsinskoy služby, dotsent

"Leptospirosis in man." V.S.Kiktenko. Reviewed by IU.A. Kozlov.

Voen.-med. zhur. no.10:93-94 0 '55. (MLHA 9:10)

(IMPTOSPIROSIS)

(KIKTENKO, V.S.)

MARTYHOV, V.Ya., mayor med.sluzhby, KOZLOV, Yu.A., kapitan med.zluzhby

RELOUSOV, G.F., leytenant med.sluzhby

Oxygen treatment for ascariasis at modical stations. Voen.-med.

zhur. no.8168-69 Ag 156

(ASCARIDS AND ASCARIASIS)

(OXYGEN-THERAPEUTIC USE)

ANAN'YEV, M.G., MUSHEGYAN, S.A., LEVITSKAYA, L.A., VAYNRIB, Ye.A., FRID, Ye.A. KOZLOV, Yu.A., MARTYNOV, L.N.

Apparatus for artificial blood circulation made by the Scientific Research Instituta for Experimental Surgical Apparatus and Instruments and results of experimental use [with summary in English]. Eksper. khir. 3 no.3:25-31 My-Je '58 (MIRA 11:8)

1. Iz Nauchno-issledovatel'skogo instituta eksperimental'noy khirurgicheskoy apparatury i instrumentov (dir. N.G. Anan'yev) Ministerstva zdravookhraneniya SSSR.

(HEART, artif. extracorporeal circ., in dogs (Rus))

ANBINDER, Ya.Ye. [Anbinder, IA.IE.]; SHPAKOVSKIY, N.Ye. [Shpakovs'kyi, N.E.];
DARBINYAN, S.A.; KOMAROV, V.V.; KOMAROVA, T.V.; KCZLCY, Yu.A.; KONCKOTIN,
L.P.; ZEREKIDZE, V.M.; SHULYATITSKIY, S.M. [Shyliatyts'kyi, S.M.];
KHODURSKIY, Ye.A. [Khodurs'kyi, IE.A.]; OBUSHINSKIY, Ye.I. [Obushyns'kyi,
IE.I.]; GVOZDIK, A.A. [Hvozdyk, A.A.]; NIKITINA, M.A.; LUPASHKC, N.F.;
BESKROVNYY, M.N.; TSIMBLER, M.Ye. [TSymbler, M.IE.]; ILYN, A.N.; TOTADZE,
P.M.; ZHIGURS, Kh.Yu.; ZAKREVSKIY, Ye.S. [Zakrevs'kyi, IE.S.];
FEDOROVICH, A.G. [Fedorovych, A.H.]; CHALENKO, D.K.; KHCMUTOV, D.A.;
SKURIKHIN, I.M.; NILOV, V.I.; YEFIMOV, B.N. [IEfimov, B.N.]; KAZANOVSKIY,
V.S. [Kazanovs'kyi, V.S.]; ZOTIKOV, L.S.; KCCHURENKO, M.A.

Soviet certificates of invention. Khar. prom. no.2:57-59 Ap-Je 165. (MIRA 18:5)

L 12971-65 BFF(s)/SFF(s)/KFF(n)-2/BFF(s)/BFF(h) Pr-1/Ps-1 GO730

ACCESSION REF APAGS637 S/GENERAL SERVICES

ATTHORS: Bacyella, B. 7.s Restory marks

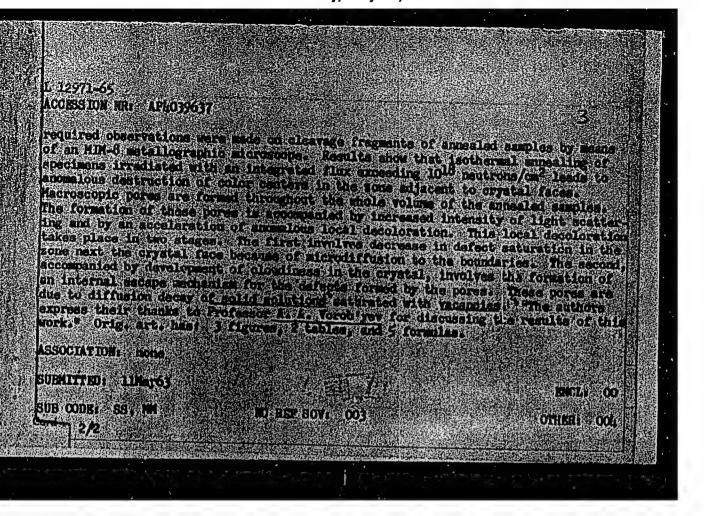
TITLE: Some: Southermal screening

SOURCE: Fisika twardage tels; v. 6, no. 6, 190k; 1573-1578

TOFIC TARS: decoloration, color senter situal helide neutron becardents/
insothermal smealing; defect formation, diffusion decay, single crystal study/RIM 8

metallographic microscope

ARSTRACT: In their experiments, the authors used single crystals of KI, REF, RO, NeI, Sabr, and Mar grown from tuned sales: For studying laothermal annealing in single crystals, specimens in the form of parallelopipeds were produced by appropriate classes to give disensions of y. 1.5 x 15 ms. The specimens wave irrediated in the dust of a rescool at Wilsty an integrated flux of neutrons ranging from 1,2:1015 to 1,2:1070 isotrons/csf. The test and control specimens were placed in corrunted cruetibles having a high thermal inertials, and these were set in a crueible furnisce. Specimens were surveyed of the test and control specimens were placed in furnisce. Specimens were surveyed of the test and control specimens were placed in furnisce. The rate of temperature change in the process did not exceed 15 deg/sid. The



ACCESSION NR: AP4009479

\$/0051/63/015/006/0839/0840

10

AUTHOR: Yegorov, V.S.; Kozlov, Yu.G.; Shukhtin, A.M.

TITLE: Concentrations of excited atoms in pulse discharges in a mixture of helium and neon

ů

SOURCE: Optika i spektroskopiya, v.15, no.6, 1963, 839-840

TOPIC TAGS: inert gas , excitation, energy transfer, pulse discharge , level population, helium, neon, optical pumping

ABSTRACT: Earlier two of the authors (A.M.Shukhtin and V.S.Yegorov, Vestnik LGU, No.3,1959 and Opt.i spektro,9,794,1960) studied the population of the upper levels of neon at different stages of a pulse discharge. The present paper gives some of the results of a similar investigation, also by the Rozhdestvenskiy method of hooks of pulse discharges in mixtures of neon and helium. The discharges were realized in a 15-mm diameter, 60-cm long tube. It was found that the introduction of He results in increase of the peak concentration of Ne in the 2p<sup>5</sup>38XUstate; at the same time the population of the 1s2s<sup>3</sup>S<sub>1</sub> of He is reduced. The inferred level populations for Ne and He separately at 0.5 and 4 mm Hg pressure and in mixture with

 $\operatorname{Card}^{1/2}$ 

APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000825910(

ACC. NR: AP4009479

the same pressure ratio are given in a table. The increase in the relative number of excited Ne atoms is attributed to energy transfer incident to elastic and inelastic collisions of the He atoms with the other particles of the decaying plasma. The various possible energy transfer mechanisms are discussed. It is concluded that a number of these mechanisms may play a significant role. Orig.art.has: 8 formulas, 1 table and 1 figure.

ASSOCIATION: none

SUBMITTED: 25May63

DATE ACQ: 03Jan64

ENCL: 00

SUB CODEP PH

NR REF SOV: 001

OTHER: 004

Card<sup>2/2</sup>

APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R0008259100

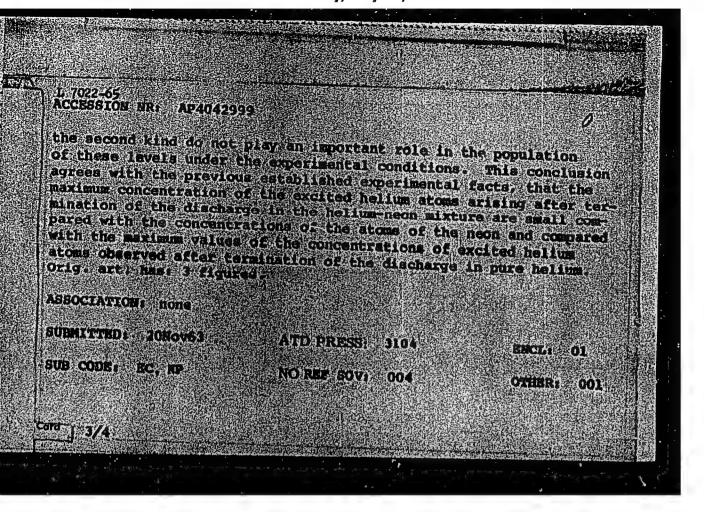
Language of a pulsed discharge at the levels lazer the levels lazer the concentrations of the charged particles; and the temperature of the excited helium atoms at the levels lazer of and the temperature of the excited helium atoms at the levels lazer of a pulsed discharge.

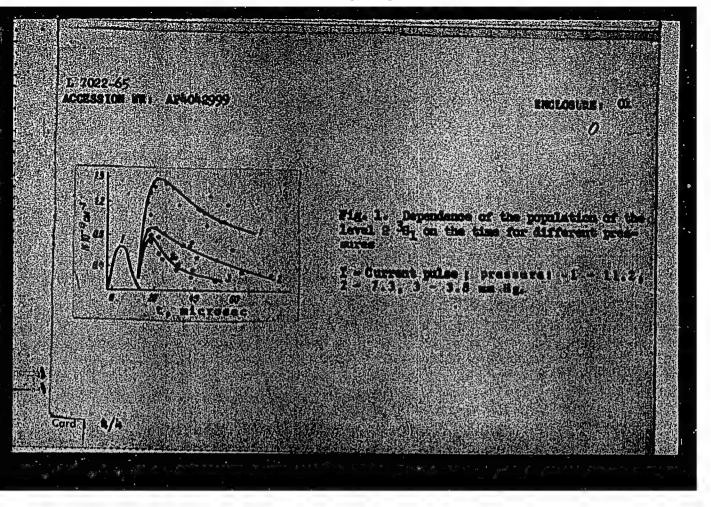
ABSTRACT: Interferometric methods and a double electric probe method were used to measure the concentration of the excited helium atoms at the levels lazer of a pulsed discharge.

ABSTRACT: Interferometric methods and a double electric probe method were used to measure the concentration of the excited helium atoms at the levels lazer of a pulsed discharge.

ABSTRACT: Interferometric methods and a double electric probe method were used to measure the concentration of the excited helium atoms at the levels lazer of a pulsed discharge. The measurements were made in a discharge tube 60 cm long and 14 mm in dismeter filled with helium atoms from 4 to 12 mm Hg., A 10 microsecond current pulse with

IL (0/22-65 ACCESSION NR ASAGARAGA maximum dansitry of several dozen A/cm vas produced by discharging a 0.8 microfarad capacitor charged to 1500—2500 V. The concentrations of the excited atoms were determined by the Roshdestvenskiy hook method hear the Pines 1889, 1965, and 5876 A. The time varia tions of the first excited levels obtained are in cull agreement with the relations previously derived for a pulsed discharge in meon (A. M. Shukhtin, V. S. Negorov, Vestn. LGU/ Ser. fig. 1 Khim., No. 1880. 16, lasue 3 [959). The recombination coefficient can be obtained from the optical and electrical measurements and is found to be about three orders of magnifude loser in belieus than in meon. The reasons for the difference are discussed. The rates of growth of the atom concentrations in the first excited states at the instant directly following the termination of the discharge current were carefully investigated, and the characteristic interference patterns resulting from the jump in the concentration of the excited atoms are interpreted. A comparison of the rates of growth of the concentrations of the excited atoms after formination of the current in pure helium and in a neon-helium mixture shows that collisions of





APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008259100

KOZLOV, Ta, G.

Pathophysiologic mechanisms of hypochond-iac delirium. Zh. nevropat. psikhiat., Moskva 53 nc.12:935-941 Dec 1953. CLML 25:5)

1. Department of Psychiatry of First Leningrad Medical Institute imeni I. P. Pavlov and Laboratory of the Physiology of Receptors of the Institute of Physiology imeni IIP. Pavlov of the Academy of Sciences USSR.

## "APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000825910

KOZLOV, YUG.

USSR/Medicine/Neurophysiology - Pharmacology

FD-2949

Card 1/2

Pub. 17-13/23

Author

: Kozlov, Yu. G.

Title

: Influence of intravenous administration of novocaine on condi-

tioned interoceptor reflexes.

Periodical

: Byul. eksp. biol. i med. 7, 47-49, July 1955

Abstract

Author investigated the action of novocaine by injecting it into the femoral veins of dogs to test the conditioned interreceptor reflexes. The dogs had stomach fistulas and had had the parotid gland duct removed. A rubber ball served to irritate the gland walls. The unconditioned reflex secretion during the first injection of novocaine decreased up to 10-15% with restoration following after 8-12 minutes. During later rowccaine injections the amount of unconditioned reflex secretion did not change much. Each intravenous injection of 1% novocaine solution brought about a tapering off of conditioned saliva reflexes and a decrease of unconditioned reflex secretion. Author therefore concludes that novocaine nearly always acts on the cerebral cortex and in small stages affects other underlying brain formations. No references. Graphs.

## "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825910

Card 2/2 Pub. 17-13/23 FD-2949

Institution : Chair of Psychiatry (Head: Active Member Academy Medical Sciences

USSR Prof. N. I. Ozeretsiy (deceased) First Leningrad Medical Institute imeni I. P. Pavlov (Dir. A. I. Ivanov) and Laboratory of Physiology of Receptors (Head: Active Member Academy Medical Sciences USSR Prof V. N. Chernigovskiy) Institute Physiology Academy Sciences USSR imeni I. P. Pavlov (Dir. Academician K. M.

Bykov) Leningrad

Submitted : 22 Aug 1954

KOHLOV, Yu.G. (Leningrad)

Role of the climaoteric in the pathogenesis of presentle psychoses and effect of sex hormones [with summary in English]. Probl. endok. i gorm. 3 no.6:73-77-N-D 157. (MIRA 11:3)

1. Iz psikhiatricheskogo sektora (zav.-prof. V.K.Fedorov) Instituta fiziologii imeni I.P. Pavlova (dir.-akad. K.M. Bykov) AN SSSR. (ANDROGENS, therapeutic use.

> presentle psychoses in female climacteric (Rus) (CLIMACTERIC, FEMALE, complications,

presentle psychoses, androgen ther. (Rus) (PSYCHOSES, PRESENILE, therapy,

androgens, in female climacteric (Rus)

VAYNRIB, Ye.A., FRID, Ye.A., KOZLOV, Yu.G., MARTYHOV, L.M., MUSHEGYAN, S.A., LEVITSKAYA, L.A.

Clinical model of apparatus for artificial blood circulation; method of preparation and directions [with summary in English]. Eksper. khir. 3 no.3:15-24 My-Je '58 (MIRA 11:8)

1. Iz Nauchno-issledovatel skogo instituta eksperimental noy khirurgicheskoy apparatury i instrumentov (dir. M.G. Anan'yev) Ministerstva zdravookhraneniya SSSR.

(HEART, artif. extracorporeal circ., clin. wodel & principles of operation (Rus))

KOZIOV, Yu. G.

Pathogenesis and clinical aspects of presentle psychoses. Trudy Inst. fiziol. 7:147-152 '58. (MIRA 12:3)

1. Psikhiatricheskiy sektor (zav. - V.K. Fedorov) Instituta fiziologii im. I.P. Pavlova AN SSSR. (PSYCHOSES)

KOZLOV, Yu.G.

……如此時代中國 為其實際 Effect of aminazine on the basic processes of the higher nervous activity. [with summary in English]. Zhur.nys.nevr. deiat. 8 no.6:904-910 N-D 158

> 1. Psychiatric Section and Laboratory of Physiology and Pathology of the Higher Nervous Activity, Pavlov Institute of Physiology USSR Academy of Sciences, Leningrad.

(CHLORPORMAZINE, effects,

on conditioned reflex funct. in dogs (Rus)) (REFLEX, CONDITIONED

eff. of chlorpromazine in dogs (Rus))

KOKLOV, Yu.G., VAYNRIB, Ye.A., FRID, Ye.A.

ī

Oxygenator of an artificial circulation apparatus. Mad.prom. 12 no.8:48-50 Ag '58 (MIRA 11:9)

1. Nauchno-issledovatel'skiy institut eksperimental'noy khirurgicheskoy apparatury i instrumentov. (PERFUSION PUMP (HEART))

ANAN'YEV, M.G.; VAYNRIB, Ye.A.; VISHNEVSKIY, A.A.; KOZLOV, Yu.G.; LEVITSKAYA, L.A.; MARTYNOV, L.N.; MUSHEGYAN, S.A.; FRID, Ye.A.

Improvement of the artificial heart apparatus designed by the Scientific Research Institute of Experimental Surgical Apparatus and Instruments. Eksper.khir. 4 no.5:3-8 S-0 '59. (MIRA 13:1)

1. Iz Nauchno-issledovatel'skogo instituta eksperimental'noy khirurgicheskoy apparatury i instrumentov (dir. M.G. Anan'yev) i Instituta khirurgii imeni A.V. Vishnevskogo (dir. - deystvitel'nyy chlen AMN SSSR A.A. Vishnevskiy) AMN SSSR (HEART, MECHANICAL, equipment and supplies)

KOZLOV, Yu.G.

Treatment of presentle psychoses. Trudy Inst.fiziol. 8:476-478 (MIRA 13:5)

1. Psikhiatricheskiy sektor (zaveduyushchiy - V.K. Fedorov) Instituta fiziologii im. I.P. Pavlova AN SSSR.

(SENILE PSYCHOSES) (RAUWOLFIA)

KOZLOV, Yu.G., kand.med.nauk (Leningrad)

A case of toxic dermatitis in gendon therapy. Klin.med. 37 no.1:157 Ja \*59. (MIRA 12:3)

1. Iz psikhiatricheskogo sektora (zav. - prof. V.K. Fedorov) Instituta fiziologii imeni I.P. Pavlova AN SSSR (dir. - akademik K.M. Bykov).

(RAUWOLFIA ALKALOIDS, inj. off.

total alkaloid prep. causing toxic dermatitis (Rus)) (DERMATITIS, etiol. & pathogen.

toxic, caused by total alkaloid prep. (Rus))

VAYNRIB, Ye.A.; MARTYNOV, L.N.; FRID, Ye.A.; KOZLOV, Yu.G.; ANAN°YEV, M.G.; MUSHEGYAN, S.A.; LEVITSKAYA, L.A.

Apparatus for artificial blood circulation. Med.prom. 14 no.11:40-45 N \*60. (MIRA 13:11)

1. Nauchno-issledovatel\*skiy institut eksperimental\*noy khirurgicheskoy apparatury i instrumentov.

(BLOOD -- CIRCULATION, ARTIFICIAL)
(MEDICAL INSTRUMENTS AND APPARATUS)

ANAN'YEV, M.G.; VAYNRIB, Ye.A.; KOZLOV, Yu.G.; LEVITSKAYA, L.A.; MARTYNOV, L.N.; MUSHEGYAN, S.A.; FRID, Ye.A.

Improved apparatus for artificial blood circulation (the AIK of 1959) and new data on its use. Trudy NIIEKHAI no.5:113-118 '61.

(MIRA 15:8)

1. Nauchno-issledovatel'skiy institut eksperimental'noy khirurgicheskoy apparatury i instrumentov. (PERFUSION FUMP (HEART))

ANAN'YEV, M.G.; VAYNRIB, Ye.A.; CORBOVITSKIY, Ye.B.; KOZLOV, Yu.G.; KASHCHEVSKAYA, L.A.; LEVITSKAYA, L.A.; COL'DINA, B.G.; SUPKO, N.S.; IVANOVA, L.N.; UNIK, V.I.

"Artificial kidney" apparatus built by the Research Institute for Experimental Surgical Apparatus and Instruments and the results of using it in an experiment. Trudy NIIEKHAI no.5:168-173 '61.

1. Nauchno-issledovatel'skiy institut eksperimental'noy khirurgicheskoy apparatury i instrumentov.

(ARTIFICIAL KIDNEY)

SOROKINA, M.I.; CHILINGARIDI, Ye.K.; KOZLOY, Yu.G.; GORBOVITSKIY, Ye.B. (Moskve)

Treatment of acute renal insufficiency by hemodialysis using an "artificial kidner" apparatus of Soviet manufacture. Klin. med. no.3:27-31 '62. (MIRA 15:3)

1. Iz otdeleniya "iskusstvennaya pochka" I Moskovskogo ordena Lenina meditsinskogo instituta (dir. - chlen-korrespondent AMI SSSR V.V. Kovanov, glavnyy vrach B.S. Bobov, nauchnyye rukovoditeli - zasluzhennyy deyatel' nauk prof. N.M. Yelanskiy i prof. I.M. Epshteyn).

(RENAL INSUFFICIENCY) (KIMMEYS, ARTIFICIAL)

ANAN'YEV, M.G.; GORBOVITSKIY, Ye.B.; KOZLOV, Yu.G.; GOL'DINA, B.G.; KASHCHEVSKAYA, L.A.; LEVITSKAYA, L.A.; IVANOVA, L.N.; SUPKO, N.S.; TKACHENKO, A.S.; UNIK, V.I.

Study of and experience in the use of the Soviet artificial kidney apparatus. Sov.med. 26 no.7:15-20 J1 '62. (MIRA 15:11)

1. Iz Nauchno-issledovatel'skogo instituta eksperimental'noy khirurgicheskoy apparatury i instrumentov (dir. M.G.Anan'yev). (KIDNEYS, ARTIFICIAL)

YEGOROV, V.S.; KOZLOV, Yu.G.; SHUKHTIN, A.M.

Concentrations of excited atoms in a helium - neon pulse discharge. Opt. i spektr. 15 no.6:839-840 D '63.

(MIRA 17:1)

YEGOROV, V.S.; KOZLOV, Yu.G.; SHUKHTIN, A.M.

Concentrations of excited atoms in a pulse discussed through helium. Opt. i spektr. 17 no.1:154-196 Jl Val.

(Erick 17:1)

ACC NR: AP7006949 SOURCE CODE: UR/

SOURCE CODE: UR/0129/67/000/001/0065/0067

AUTHOR: Zalesskiy, V. I.; Kozlov, Yu. I.; Lin, S. T.

ORG: Moscow Institute of Steel and Alloys (Moskovskiy institut stali i splavov)

TITLE: Strengthening of Kh14G14N3T steel during manufacture of end plates by cold burnishing

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 1, 1967, 65-67

TOPIC TAGS: stainless steel, tensile strength, yield strength, hardness, cold working /Kh14G14N3T steel

ABSTRACT: The change in the mechanical properties of stainless-steel end plates in the process of their manufacture by cold burnishing has been investigated Butt-welded round blanks, 16 mm thick, were first spherically formed and heat treated, then cold burnished into end plates 3000 mm in diameter and given final heat treated. It was found that during end plate manufacture, the tensile strength, yield strength and hardness significantly increased, while the reduction of area and, particularly, elongation and notch toughness sharply decreased. The respective mechanical properties of the parent and burnished metal were: tensile strength 75 and 98—102 kg/mm²; yield strength 42 and 93—101 kg/mm²; hardness 201 and 348 HB; reduction of area 65 and 44—59%; elongation 45 and 13%; and notch toughness 23 and 4—7 kgm/cm². To

Card 1/2

UDC: 669.14.018.298,8.621.787.4

obtain end plate without rupture, it must be heat-treated after preforming and during burnishing. Orig. art. has: 2 tables.						d AZ]	
SUB CODE: 1	1, 13/ SUBM	DATE: none			Aj	<i>L</i> ]	
	,		-	•			
	•						
	•					:	
		•					
	•						
				•		:	
				••		;	

KOZLOV, Yu.I.

Effect of the driving back of formation water by the flow of drilling fluid on the results of mud-analysis logging. Razved.i prom.geofiz. no.45:92-96 162. (MIRA 15:11) (Krasnodar Territory-Oil well logging)

\$/0182/64/000/005/0001/0003

AUTHORS: Zalesskiy, V. I.; Tsibanova, M. S.; Kozlov, Yu. I.

TITLE: On the profile of hammer blocks for forging on hydraulic presses of low plasticity alloys

SOURCE: Kuznechno-shtampovochnoye proizvodstvo, no. 5, 1964, 1-3

TOPIC TAGS: forging, steel alloy, hammer block, hydraulic press, metal deformation

ARSTRACT: The authors conducted comparison tests on the forging of final parts of steel bars on cut hammer blocks with a 7-mm radius of edge curvature (see Fig. 1 on the Enclosure) and on similar blocks with an angle of inclination (\$\sigma\$) of 15°. Samples for test use were prepared from low plasticity steel of 40-mm diameter and 200-mm length with a cast structure. The samples were heated and placed on a 200-800, 900, 1000, 1100, and 1200C were used for testing. The allowed degree of deformation was given by the formula

 $\frac{D_0 - n_1}{D_0} \cdot 100^{\circ}/3$ 

where Do is the sample diameter before deformation and hi is the height in

millimeters of the transverse section after deformation; the same degree of deformation allowed was also calculated by

 $a = \frac{F_0 - F_1}{F_0} \cdot 100^\circ /_{\infty}$ 

where F<sub>o</sub> and F<sub>l</sub> are the area of the transverse section before and after deformation respectively. The resulting degrees of deformation are tabulated, as are the results of varying the inclination angle of the blocks. The optimal inclination angle for one pass was found to be 20°; the absence of cracks during deformation was noted even for 29.8% deformation. Similar testing using a 3000-ton press in production conditions gave good results. Orig. art. has: 3 figures, 2 tables, and

ASSOCIATION: none

SUBMITTED: 00

SUB CODE: MM

NO REF SOV: OOO

ENCL: O1

OTHER: OOO

card 2/3

APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R0008259100

8/0148/64/000/005/0090/0093

AUTHOR: Zalesskiy, V. I.; Tsibanova, M. S.; Kozlov, Yu. I.

TITIE: Determination of Plasticity in Ingot and Billet Forging

SOURCE: IVUZ. Chernaya metallurgiya, no. 5, 1964, 90-93

TOPIC TAGS: plasticity, deformation, hot drawing, reduction, forging ingot; billet

ABSTRACT: The authors investigated plasticity for the purpose of determining the proper degree of deformation during hot drawing. Reduction was carried out in rhombic dies. Cast and forged 250 mm long specimens with a 40 mm diameter were cut from a low-plasticity steel ingot. Heating to 1150 C was followed by cooling to 30 C above test temperatures and 15 min holding. A 200 ton hydraulic press was applied. Rupture and upsetting tests showed the optimal temperature range for the deformation of the specimens to be 950 to 1170 C. Under industrial conditions the degree of deformation was calculated from the press stroke according to the equation

 $\varepsilon = D_0 - h_1/D_0 \times 100\%$ 

Card 1/2

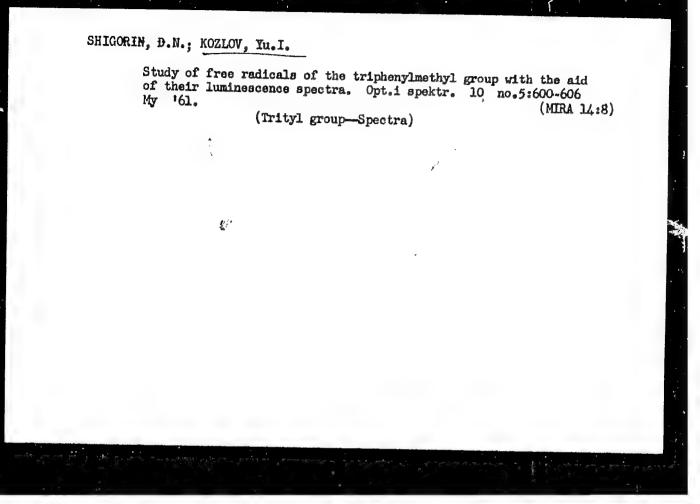
where D = initial diameter of the specimen; h = final permitted height in drawing during one operation. The cross-sectional area was measured with a planimeter from a templet indentation. Thus, a method simulating the process of a given forging operation is suitable for the determination of the degree of deformation. Orig. art. has: 2 figures, 2 equations and 2 tables.

ASSOCIATION: Moskovskiy institut stali i splavov (Moscow Institute of Steel and Alloys)

SUPMITTED: 080ct63 DATE ACQ: 12Jun64 ENCL: 00

SUB CODE: MM / NO REF SOV: 000 OTHER: 000

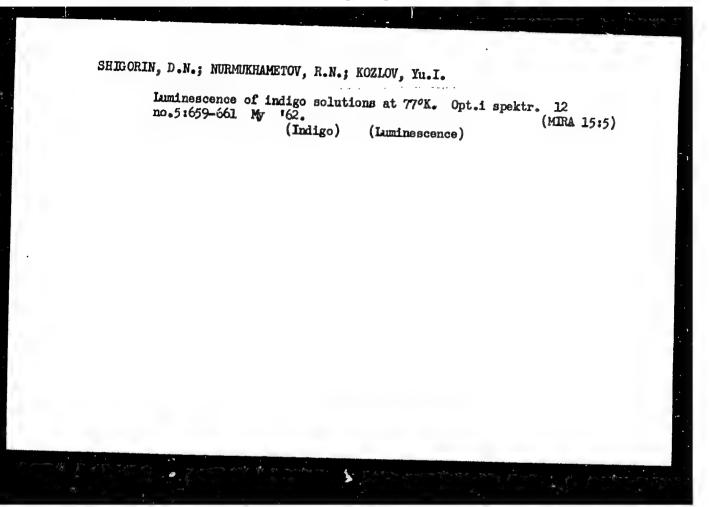
Card 2/2



NUPRUELLETTOV, R.N.; SHIGORIE, D.N.; KOZLOV, Yu.I.; PUCHEOV, V.A.

Effect of the hydrogen bond on the luminescence of hydrogyand amino azo compounds. Opt. i spoktr. 11 no.5:606-612 N '61. (MIRA 14:10)

(Azo compounds--Spectra)



NURMUKHAMETOV, R.N.; KOZLOV, Yu.I.; SHIGORIN, D.N.; PUCHKOV, V.A.

Luminescence spectra of azomethine compounds. Dokl. AN SSSR 143 no.5:1145-1148 Ap '62. (MIRA 15:4)

1. Predstavleno akademikom A.N.Tereninym.
(Schiff bases--Spectra)

S/048/63/027/001/007/043 B163/B180

AUTHORS:

Kozlov, Yu. I., and Shigorin, D. N.

TITLE:

Formation of free radicals of the triphenylmethyl series

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 27,

no. 1, 1963, 14-16

Compounds of the following type TEXT:

Card 1/3

Formation of free radicals of the ...

Card 2/3

S/048/63/027/001/007/043 B163/B180

were studied, where H = H, OH, CI,  $H_3C$ ;  $R_1 = H$ ,  $N(CH_3)_2$ ,  $N(C_2H_5)_2$ ,  $R_2 = H$ , CI,  $OCH_3$ ,  $NO_2$ ;  $R_3 = H$ ,  $OCH_3$ . In such compounds, the C - R bond breaks under ultraviolet irradiation with wavelengths between 250 and 350 mm. The formation of the radicals is proved by the epr in the irradiated compounds, and by the fact that the luminescence spectra of the particles obtained after irradiation of  $(C_6H_5)_3CH$ ,  $(C_6H_5)_3CCI$ ,  $(C_6H_5)_3COH$  coincide with the spectrum of the free triphenylmethyl radical obtained by thermal dissociation of  $(C_6H_5)CC(C_6H_5)_3$ . Before irradiation, the molecules show strong fluorescence at 3800 - 4500 Å, and phosphorescence at 4200 - 4800 Å. Both fade as the irradiation time increases and the intensity of a new fluorescence band at about 5800 Å increases, which is specific for the resulting radicals. The phosphorescence of the initial molecules and the formation of radicals becomes stronger if the solvent is changed from benzene to hydrocarbons and alcohols. Since the energy of radical formation exceeds the energy

of the exciting quanta ( 3 = 313 nm), a firect process is impossible, and

S/048/63/027/001/007/043 B163/B180

Formation of free radicals of the ...

the following mechanism is suggested. First there is excitation of the  $\pi$ -electron system (singlet  $\pi \to \pi^*$  transition) in the initial molecules. From this excited state a nonradiative transition to a triplet state with a lifetime of a few seconds is possible. Some of the molecules in the triplet state emit their energy in form of phosphorescence quanta, others transmit it to the system of  $\sigma$ -bonds  $\frac{1}{2}$ C - R which is weakened and can now be broken up by ultraviolet radiation to form free radicals. The probability of formation of free radicals is lower for gamma-irradiation than for ultraviolet. This paper was presented at the 14th Conference on Spectroscopy in Gor'kiy, July 5-12, 1961. There are 2 figures.

Card 3/3

NURMUKHAMETOV, R.N.; SHIGORIN, D.N.; KOZLOV, Yu.I.

Luminescence spectra of solutions of indigo and some of its derivatives at 770K. Izv. AN SSSR Ser. fiz. 27 no.5:686-689 My 163. (MIRA 16:6)

(Indigo-Spectra)

KOZLOV, Yu.I.; SHIGORIN, D.N.; NURMUKHAMETOV, R.N.; PUCHKOV, V.A.

Phototransfer of a proton in the quasiaromatic ring with H-bonding. Zhur. fiz. khim. 37 no.11:2432-2444 N'63. (MIRA 17:2

1. Fiziko-khimicheskiy institut imeni L.Ya. Karpova, Moskva.

KOZLOV, Yu.I.; MUROMTSEV, V.I.; PISKUNOV, A.K.; SHIGORIN, D.N.; OZEROVA, G.A.; VEREYN, N.V.

Formation of radicals via the triplet state in the ultraviolet irradiation of frozen solutions of aromatic molecules. Zhur. fiz. khim. 37 no.12:2800-2802 D 63. (MIRA 17:1)

1. Fiziko-khimicheskiy institut imeni Karpova.

SAVITSKIY, A.P.; KOZLOV, Yu.I.; ITIN, V.I.; SAVITSKIY, K.V.; ZHDANOVA, V.N.

Effect of porosity on the mechanical properties of metal-ceramic copper and the Cu--Al alloy. Izv. vys. ucheb. zav.; fiz no.5: 34-37 '64. (MIRA 17:11)

1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosudarst-vennom universitete imeni V.V. Kuybysheva.

S/0182/64/000/002/0035/0038

AUTHOR: Zalesskiy, V.I.; Tsibanova, M.S.; Kozlov, Yu. I.

TITLE: Technique for heating heat-resistant steel ingots

SOURCE: Kuznechno-shtampovochnoye proizvodstvo, no. 2, 1964, 35-38

TOPIC TAGS: steel production, ingot heating, steel, heat resistant steel, austenitic steel, carbide steel, heat resistance

ABSTRACT: Ingots of grade 48AN-1 heat-resistant steels of the austenite-carbide group were investigated. Thermocouples were used to measure the temperature. The results showed that steel ingots had previously been heated for too long a time and that the duration may be reduced by 6 hours. The temperature gradients in the steel were also measured. The author recommends rapid heating of the steel by placing the cold ingots into an oven already heated to 600 C. The temperature is then immediately raised to 800 C (for 1 to 1.5 hours) and the ingots are held at this temperature for 5 hours. The temperature is then forced to 1170-1200 C over 5 hours and maintained at this level for 3 to 4.5 hours. The total duration of heating for an ingot weighing 3.7 metric tons was about 16 hours. This forced method produced results which were in no way inferior to those of the usual heating method. "K. Ye. Sharapov, A. I. Senyakin, K. V. Ignat'yev and Ye. A.

ACCESSION NR: AP4019026

Petrova also took part in this work." Orig. art. has: 8 figures.

ASSOCIATION: TsZL zavod

SUBMITTED: 00

DATE ACQ: 27Mar64

ENCL: 00

SUB CODE: ML

NO REF SOV: 000

. . .

OTHER: 000

2/2

Card

F-67/0265 - PATY (1) / PATY (6) / PATY (1) - SATY (1) / PRO / ARD (10) - SATY

Contestorente AVIVERS

8/0139/64/000/004/0035/0040

AUVHORS: SEVECERSV A. B. J. Lein, V. Lv. Roblov, Yu. J. v. Zhdanova

VERY TOUR KOVER IN

MIMIE Resistance of metal-default copper to compression at increased temperatures

sources addize being no a 1964, 35-40.

TOPIC TAGS: X ta/ diffract on study. Metal ceramic material, ceramic estate no, ceramic thermal stability, ceramic pressing, compression resistance

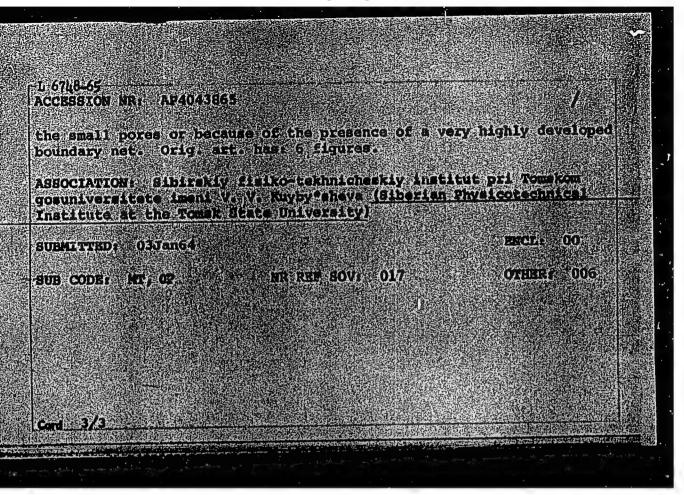
ABSTRACT: To check on the influence of the manufacturing regime on the mechanical properties of metal-ceramic copper, the authors tested for compression, at 20; 150, and 500c, metal-ceramic copper obtained by triple pressing and sintering at different temperatures (250-1000c), with porosity 3-6%. The samples were made of elec-

Card 1/3

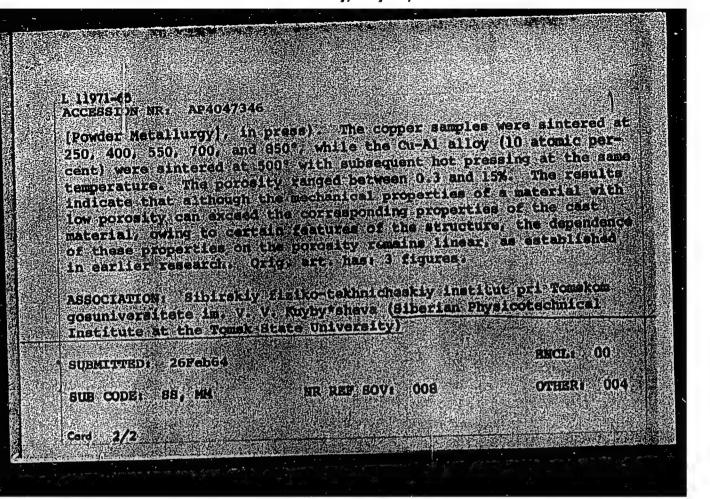
#### L 6748-65 ACCESSION HRI AP4043865

pressed at 1.5 ton/cm², and sintered at 250, 400, 550, 700, 850, and 100c. The sumples were pressed again after sintering at 5 tons/cm², sintered again at the corresponding temperature, and again pressed at 5 tons/cm². The Yesults show that a metal-ceramic copper multiply pressed and sintered at low temperatures, has a nigher resistance to compression at room temperature than metal subjected to hisportemperature sintering, but is not as resistant to compression at migh temperatures as is a deramic prepared at high temperatures. The loss of strength is found to be due to partial annealing, as determined by the width of the (331) x-ray line of the sample. Measurements of the width of the x-ray line have established that recrystallization of the metal ceramic copper takes place during the sintering process in the temperature interval 300-350C. A hypothesis is advanced that the weakening of the metal-ceramic copper during compression at high temperatures is due to interaction between disconstions and vacancies, which spher the lattice upon dissolution of

Card 2/3



L 11971L-65 PRI(\*)/HPR/DWP(E)/DWP(\*)/DWP(\*)/PMP(b) Pf-4/Pe-4 SSD/AFETE/ ASD(m)\_2/AFNL/BSD\_\_TD 8/0139/64/000/005/0034/0037 ACCESSION NRT AP4047846 AUTHORS BAVI-BRIV. A. P. F. ROSLOV JUL 101 TELL V. I. BAVIGBELV Key Vest gridanista VIII Ex TITLE: BERect of porcestty on the mechanical properties of metalcaramic copper and a CL-AL at 10 SOURCE: IVUZ. Plzika, no. 6, 1964, 34-37 TOPIC TAGS: copper alloy; copper; metal ceramic material, porosity, mechanical property hardness; powder metallurgy ABSTRACT: In view of the lack of experimental data on the effect of low porosity on the mechanical properties, the authors investigated the dependence of the hardness and resistance to compression of copper and of Cu-Al alloy, prepared by powder-metallurgy methods, on the porosity. The preparation of the metal-ceramic samples is the same as described by A. P. Savitskiy et al (Poroshkovaya metallurgiya Card 1/2



ACCESSION NR: AP4036566

5/0139/64/000/002/0110/0115

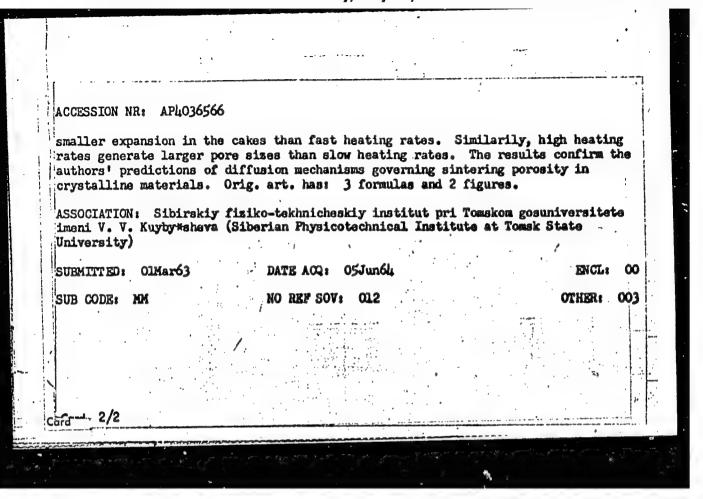
AUTHORS: Savitskiy, A. P.; Itin, V. I.; Zhdanova, V. N.; Kozlov, Yu. I.

TITLE: On problem of excess vacancy sources formed during sintering of metallic powders

SOURCE: IVUZ. Fizika, no. 2, 1964, 110-115

TOPIC TAGS: metallic powder, sintering, cake porosity, initial porosity

ABSTRACT: An experimental investigation was made to verify theoretical conclusions on the influence of the heating rate in metallic powder sintering. Copper powder  $(50\,\mu\text{ size})$  of galvanic origin was used to prepare 15- to 20-mm cylindrical specimens (7 mm in diameter) in a double-sided press. The sintering was carried out in  $5\times10^{-3}$  Hg vacuum at a temperature of 900C for one hour. One set of specimens was heated at an average rate of 1.5 degrees per minute and the other at 200 degrees per minute. A graph (depicting final cake porosity versus initial porosity for both heating rates) and 170-magnification photographs of the pore sizes in the two specimens show that for small initial porosity under elevated pressures the use of slow heating rates to sintering temperatures gives rise to a



ACCESSION NE: AP5006172

\*\*STONIAN SET AP5006172

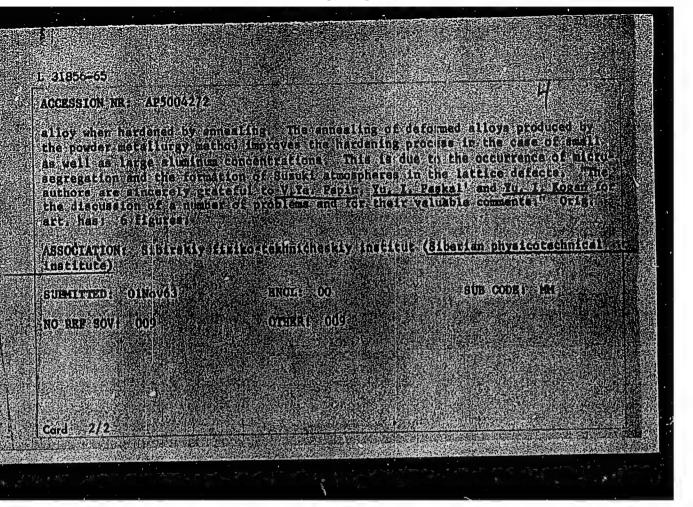
\*\*TITLE: The affact of annealing up the properties of rold-worked Ou-Al alloys prepared by the fintering method

\*\*SURKON: Pisiks metalloy L metalloysdeniys of L9, no. 1, 1965, 117-122

\*\*NOPIC TAGS: Sansaling, cold-working, auminum bronze, powder metallurgy, powder before cast bronze (ast bronze folid-solution, microsegregation, aintering, diffusion annealing, copper alloy

\*\*ANSTRAIT: A study has been made of the effect of annealing, following cold-working, method. The suthors found that the presence of a solid solution with a changing oncentration and a very fine grain in the mentioned alloy serves to improve the hardening effect during embeding. These method is a solid solution contrations, even a small aluminum content will, also embance the nates ing effect in the course of measing. There is a basis for the belief that the production of powder bronze of the course of the colling method will considerably improve the mechanical properties of this card 1/2

\*\*Card 1/2\*\*



	纝
<u>L_397E9_65</u>	
AUTHOR: Sevice types V: Kullfore V: Act (Mar V: 2) (Morlow Yu. 1); Savice S: A. P.	
TITLE: The affact of temperature on the <u>machinited projector</u> compared models  (11 oys 0 copper with attentions	
SOURCE: Poroshkovaya meral lurgiye; no. 2; 1965; 78-82	
TOPIC: (AGS): aluminum allow, metallurgical research; bronse; compression.acreagon; smealing	
ABSTRACT: Because of their excellent mechanical properties, aluminum broazes are replacing the more expensive limitronses; However, the poor casting pro-	
perties of aluminum bronges impedating rune accessed: These difficulties may be overcome by substituting powder metallurgy for <u>casting</u> the authors examine the properties of aluminum broads produced by this method. Ketal powder-alloys	
with 5 10 and 15 at; / alternise are studied in asspering the alloys copper and alternise powders (with particles mailtar than 50 II were mixed for 50-70 hours.	
Card 1/3	

1, 39729-65

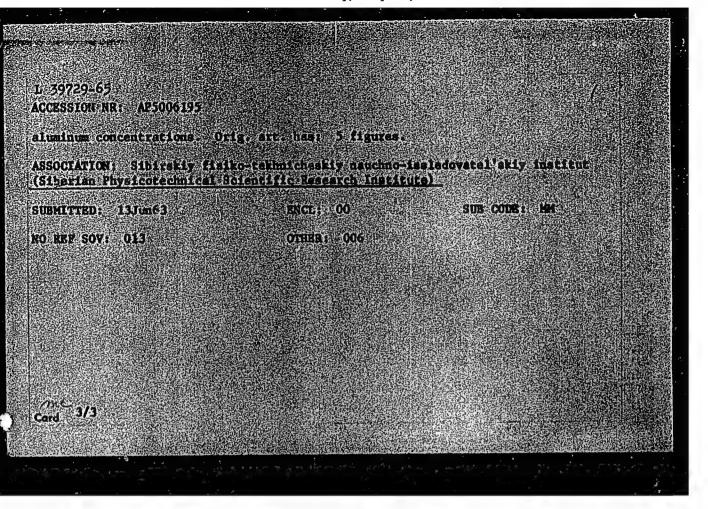
ACCESSION NR AP5006195

Cylindrical specimens 7 mm in dismeter and 16-15 mm high were pressed from this mixture at a pressure of 50 kV/cm², "After preliminary annealing in a yacuum, the specimens were pressed for a second time at a pressure of 130 kR/cm² and finally sintered in a vacuum of 1.5 l0." The intermediate annealing temperature for all materials was 7000% the final sintering resperature: Cu-700°, Cu f 5 at 7.41-8500 Cu 10 at 7.41-8500 Cu 14.5 Al-950-1000°. The sintered samples were cut off on a take to an identical height=110.02 mm and then were an mealed at a temperature of 7000 for 1 hour to remove the cold hardening. These samples were compression taked on an k-5 machine in a temperature range from 20 to 500°C. It is found that Cu-Al alloys produced by the powder metallurary method have a higher resistance to compression in the temperature range from 20/ds 300°C than the cast alloys of corresponding composition. This phenomenon is connected with the presence of orides in alloys; the extremely fine grain and high inhomogeneity concentration. Homogenization of the powder metal bronses leads to improvement of the mechanical properties of the alloys at high temperatures in comparison with the non-homogenized bronzes. Hardening of the Cu-Al powder metal alloys during amealing after cold deformation by compression has a number metal alloys during somealing after cold decomation by compression has a number of special features in comparison with cast alloys, in particular such barden.
Ing is stable over a wider range of temperatures and is observed at loses.

Card 2/3

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000825910



EWI(m)/EWP(a)/EWP(w)/T/EWP(k)/EWP(z)/EWP(b)/EWP(t) IJP(c) L 2710-66 UR/0139/65/000/003/0124/0128 AP5017182 ACCESSION NR: AUTHOR: Itin, V. I.; Savitskiy, A. P.; Kozlov, Yu. I., Savitskiy, K. V. TITLE: Influence of the sintering temperature on the mechanical properties of Cu-Al alloy prepared by the method of multiple pressing and sintering SOURCE: IVUZ. Fizika, no. 3, 1965, 124-128 TOPIC TAGS: copper alloy, aluminum containing alloy, powder metal compaction, powder metal sintering, temperature dependence ABSTRACT: This is a continuation of earlier work by the authors (Izv. Vuzov SSSR, Fizika, No. 2, 139, 1965) and is simed an eliminating the pores which appear in tu-AL alloys sintered at temperatures above the cutectic melting point. To eliminate these defects the authors propose a two-step technology, wherein the pores are eliminated by a second pressing and sintering. The dependence of the hardness and resistance to compression of an alloy of copper with 10 at.% aluminum on the temperature of the sintering was measured at temperature 300, 400, 500, 600, 700, 900, and 1040C. The preparation of the samples and the test procedures are described. The maximum resistance to compression and maximum hardness was obtained at 500C, while best ductility was obtained at 600--700C. The results are analyzed from the point of view of formation of new phases of solid solutions at various Card 1/2

L 2710-66			
ACCESSION NR: AP5017182			2
temperatures. It is conclude multiple pressing and sinter sintering seals the pores and centrators in the sintered a and of the pressure permits ity, thus yielding alloys wi	d at the same time reduce	es the number of second-sintering to	tress con- emperature
ASSOCIATION: Sibirskiy fizi (Siberian Physicotechnical I	ko-tekhnicheskiy institut	; imeni V. D. Kuzu	etaova
SUDMITTED: 12Dec63	encl: 00	SUB CODE:	
NR REF SOV: 005	OTHER: 001		
			海海 电电流 图 然知 多耳 【八篇】

A COPERS OR SHIPE A SHOULD TO

\trivo148/65/000/007/0113/0115

669 16-194:669 28 24:669 187 25:539 214

AUVERORG VALBRARIY, V. F. Talbanova, A. S. Kożlov Vu. I.

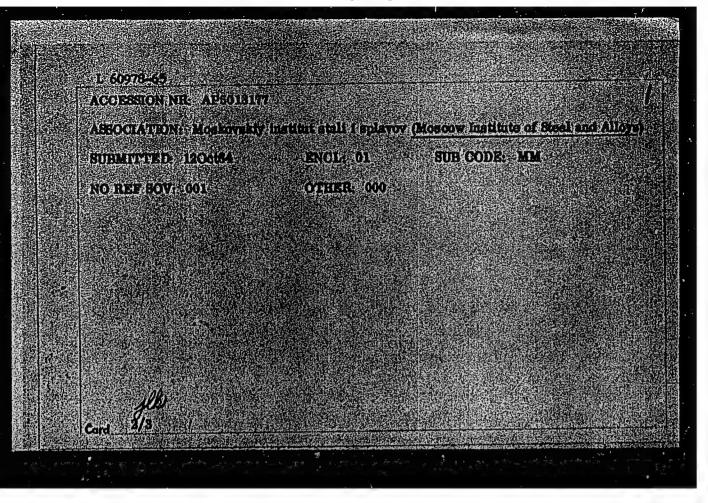
TIPLE: The influence of the purity of original charging material on the planticity of chrome model state.

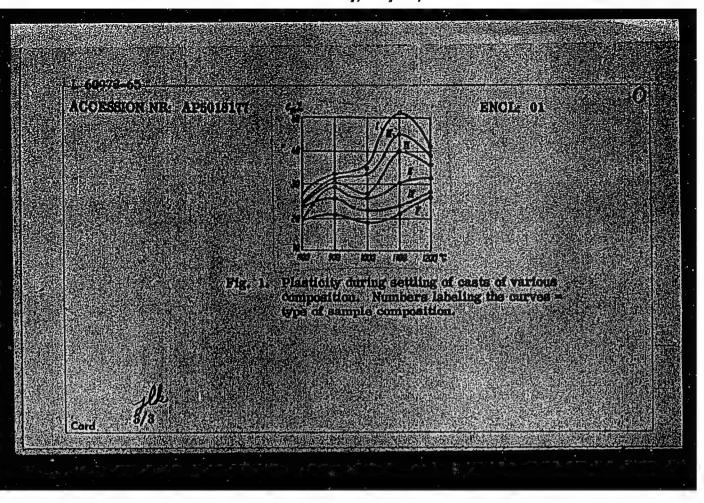
SOURCE THUZ: Charmays movallingly no. 7. 1965 13-16

NOPIC IVACS, greet plantcity, seed casting charge purity, chrome seed, mokel steel,

ABSTRACT: The influence of the purity of original charging material on the deformability of low-playticity steels was studied on 3-kg casts smelted in a 25-kg capacity laboratory induction himsee. The test sample composition was as follows: 1-50% fresh charge sided to sorap steel, make N-1 and terrochrome (500): H = 100% sorap steel smelt; H = fresh charge with N-1 nickel and (000) ferrochrome: IV = fresh charge with N-2 nickel and (000) ferrochrome: V = fresh charge with N-2 nickel and (000) ferrochrome; V = fresh charge with N-2 nickel and 00 ferrochrome; and V fresh charge with N-1 nickel and 00 ferrochrome. The basic results are summarized in Fig. 1 of the percentage of the formation at 800, 900, 1000, 1100 and 1200C is also given for each steel. Orig, art has 1 formula, 2 figures; and 2 tables.

Card 1/8





KOZLOV, Yu.I.; SHIGORIN, D.N.

Two-quantum photochemical processes in frozen solutions of triphonylmethane compounds. Dokl. AN SSSR 161 no.4:871-874 Ap \*65. (MIRA 18:5)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova. Submitted October 3, 1964.

GRIGOR'YEVA. V.V.; SAVITSKIY, K.V.; ZHDANOVA, V.N.; KULIKOY, Y.A.; SERGEYENKOVA, V.M.; SAVITSKIY, A.P.; ITIN, V.L.; KOZLOY, Yu.I.

Strain resistance and resistance to deformational distortions of ceramic metal alloys. Porosh. met. 5 no.9:R1-90 S '65. (MIRA 18:9)

1. Institut problem materialovedeniya AN Ukr337 i Sibirskiy fiziko-tekhnicheskiy institut imeni Kuznetsova.

SAVITSKIY, K.V.; ITIN, V.I.; KOZLOV, Yu.I.; SAVITSKIY, A.P.

Effect of the dispersity of an aluminum powder on the sintering of the Cu-Al alloy in the presence of the liquid phase. Porosh. met. 5 no.11:19-25 N 165. (MIRA 18:12)

1. Sibirskiy fiziko-tekhnicheskiy institut imeni V.D.Kuznetsova. Submitted February 13, 1965.

ITIN, V.I.; STATISHIY, A.P.; SAVITSKIY, K.V.; KOZLOV, Yu.I.; KULIKOV, V.A.

Sintering of the metal ceramic alloy Cu - Al. Izv. vys. ucheb. zav.; fiz.
3 no.2:139-144 \*65. (MIRA 18:7)

1. Sibirskiy fiziko-tekhnicheskiy institut imeni Kuznetsova.

ITIN, V.I.; SAVITSKIY, A.P.; KOZLOV, Yu.f.; SAVITSKIY, K.V.

Effect of the temperature of sintering on the mechanical properties of the Cu-Al alloy prepared by the method of repeated pressing and caking. Izv. vys. ucheb. zav.; fiz. 8 no.3:124-128 '65. (MIRA 18:9)

1. Sibirakiy fiziko-tekhnichoskiy institut imeni V.D. Kuznetsova.

		L 2099-66 EMP(e)/EMP(t)/EMP(t)/EMP(x)/EMP(b)/EMP(b)/EMP(c)
	4.0	ACCESSION NR: AP5022547  44.55  AUTHOR: Grigor'yeva, V. V.; Bavitskiy, K. V.; Zhdanova, V. J.; Kulikov, V. A.; ve;  AUTHOR: V. I.; Korloy, V. J.; Korloy, V.
		Sergevenkova, V. M. Bavittati
	∭ e 14. 1	TITLE: Resistance to deformation and stability of deformation-induced distortions
	1,30 1,30	of sintered powder alloys
		BOURCE: Poroshkovaya metallurgiya, no. 9, 1965, 81-90  TOPIC TAGS: sintered nickel alloy, aluminum oxide containing alloy, dispersion  Topic TAGS: sintered nickel alloy, aluminum oxide containing alloy, dispersion.
		at wangthaned allow allow deformation resistante,
	10	distortion stability, alloy micronardness
	10	ABSTRACT; Compacts of powders of pure nickel and nickel with 1, 3, and 5% of a-Al <sub>2</sub> O <sub>3</sub> or y-Al <sub>2</sub> O <sub>3</sub> were sintered at 1200—1400C in a hydrogen atmosphere and tested
	3.5	for compressive strength under compressive of deformation induced distortions
		was investigated by measurements of the microscopies atremeth of sintered
		in the 200-10500 range. The room-temperature higher than that of pure sintered nickel alloys with up to 55 Al203 was slightly higher than that of pure sintered
		nickel alloys with up to 35 Al203 was slightly might be at both test temperatures, nickel, and the difference was somewhat greater at 500C. At both test temperatures,
•		Cont_1/3
	F 47	the state of the s
		gen before our miner and the second s
	ar in a	Medic 6
	2 - \$2 	de 2: f
	7 - ST	

L 2099-66

ACCESSION ER: AP5022547

the compressive strength was higher in alloys containing a-Al<sub>2</sub>O<sub>3</sub> and slightly increased in all alloys as the Al<sub>2</sub>O<sub>3</sub> concentration increased. The size of Al<sub>2</sub>O<sub>3</sub> particles had practically no effect on the room-temperature compressive strength but at 500C the compressive strength of alloys increased superciably as the particle sharply pronounced effect on the compressive strength. For example, an alloy with sharply pronounced effect on the compressive strength. For example, an alloy with 35 c-Al<sub>2</sub>O<sub>3</sub> had a compressive strength of about 65 and 36 dan/m² at 20 and 500C, 33 c-Al<sub>2</sub>O<sub>3</sub> had a compressive strength of about 65 and 36 dan/m² at 20 and 500C, and 500C, produced an equally slight y-Al<sub>2</sub>O<sub>3</sub>. Low-temperature annealing (at up to 300-k00C) produced an equally slight y-Al<sub>2</sub>O<sub>3</sub>. Low-temperatures higher than k00C decreased the hardness of sinkered Annealing at temperatures ligher than k00C decreased the hardness of sinkered Annealing at temperature, annealing remained higher than that of identically treated sintered nicksl. The hardness level of "Ri-Al<sub>2</sub>O<sub>3</sub> alloys increased with the sinker content and finances of al<sub>2</sub>O<sub>3</sub> powder. The maximum softening of Ri and Ri-Al<sub>2</sub>O<sub>3</sub> alloys occurred at thes same temperature, while the temperature of maximum workening of Ri-Al<sub>2</sub>O<sub>3</sub> alloys occurred at these same temperatures and a higher compressive stability of the deformation-induced distortions and a higher compressive

strength at a	AP5022547	stures favor the use	of sistered Ni-a	Al <sub>2</sub> O <sub>3</sub>	
alloys. Orig	g, art. has: 8 figures	end 5 formulas.		(AD)	
ASSOCIATION: of the Science	Institut problem mater ce of Materials, MF (MrSN) a (Biberien Physicotechn	ialovedeniya AN Ukri h Sibirakiy fiziko-	MR (Institute of tekhnicheskiy inst	Problems Ltut im. V.	
BUBNITTED:		MICT. 00	្ស់ <b>SUB COOK:</b>		
	006	corner ork	AUD PHOESE		
here					
			•		
	A Property of the		*	• •	
200			•		
					į
Cord 3/3	<b>\</b>				4
					•
	•	. *		!	
		1			
		1			

L 20777-66 EWT(d)/EWT(m)/EWP(v)/EWP(v)/T/EWP(t)/EWP(k)/EWP(h)/EWP(1) JD/HW
ACC NR: AP6004680 SOURCE CODE: UE/0182/65/000/010/0009/0010

AUTHOR: Zalesskiy, V. I.; Kezlov, Yu. I.; Tsibanova, H. S.

ORG: none

TITLE: Effect of the shape of tool on the pattern of deformation of low-plasticity steel during upsetting

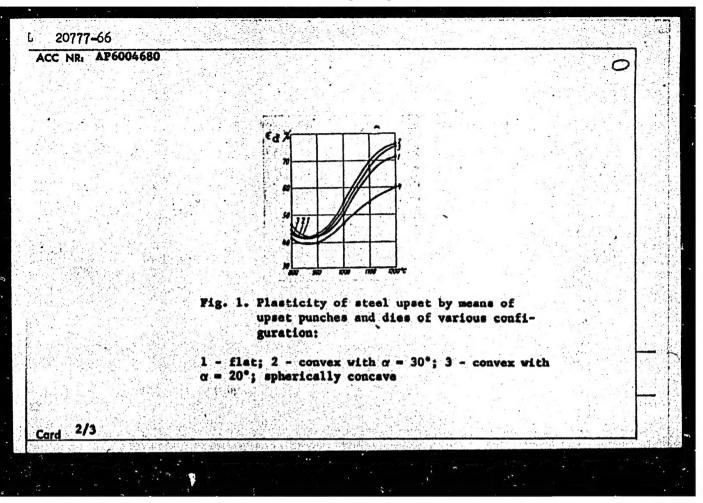
SOURCE: Kuznechno-shtampovochnoye proizvodstvo, no. 10, 1965, 9-10

TOPIC TAGS: hot upsetting, material deformation, plasticity, die shape, punch shape

ABSTRACT: Considering that many low-plasticity alloys are forged by upsetting and that initially concave and convex spherical upset dies and punches are used for this operation while flat upset dies and punches are used for final upsetting, the effect of the configuration of upset tools on plasticity as well as on the nonuniformity of deformation over height of specimen was investigated under laboratory conditions (specimens with initial diameter  $D_0 = 30$  mm and initial height  $H_0 = 40$  mm, of cast low-plasticity metal. The upsetting was performed at  $800-1200^{\circ}\text{C}$  with deformation  $\epsilon_{\text{total}} = 40\%$  over the height of the specimen. It was found (Fig. 1) that over the range of upsetting temperatures from 950 to 1170°C the greatest plasticity is displayed by specimens subjected to preliminary upsetting (10% deformation over height)

Card 1/3

UDC: 621.733.4



## L 20777-66

ACC NR: AP6004680

by means of a punch with a projecting part 4.3 mm high shaped like a truncated cone. Over the entire range of upsetting temperatures employed the lowest plasticity was displayed by specimens upset by means of spherically concave tools (especially at 1100-1200°C, when the deformation is ~15-17%); The plasticity of specimens upset by means of flat punches is of an intermediate value. Upset punches with a projection shaped like a truncated cone reduce the nonuniformity of deformation, since then, during the preliminary upsetting, the projecting tip of the punch penetrates the central area of the specimen in such a way as to cause flowage of the specimen's metal; subsequent upsetting with flat upset punch causes flowage of metal in the surrounding annular zone of the specimen with its small surface area of friction; this displaces the metal of that zone both in the outward direction and in the direction of the cavity previously formed by the tip of the cone-shaped upset punch. All this leads to a sharp decrease in the zone of difficult deformation. By contrast, preliminary upsetting by means of spherically concave upset tool, with a deformation of ~15% over Height, is highly disadvantageous, since it causes a decline in plastic properties and an increase in the nonuniformity of deformation. Orig. art. hes: 5 figures, 1 formula, 1 table.

SUB CODE: 11, 13/ SUBH DATE: none/ ORIG REF: 000/ OTH REF: 000

Card 3/3 Vmb

L 31967-66 EMP(e)/FWT(m)/T/EMP(t)/FTI/EMP(k) IJP(c) JD/JH ACC NR: AP6017096 (N) SOURCE CODE: UR/0226/66/000/001/0005/0011

AUTHOR: Savitskiy, K. V.; Itin, V. I.; Kozlov, Yu. I

45 B

ORG: Siberian Physicotechnical Institute im. V. D. Kuznetsov (Sibirskiy fiziko-tekhnicheskiy institut)

TITLE: Investigation of the mechanism of sintering powder-metal alloys of copper and aluminum in the presence of the liquid phase

SOURCE: Poroshkovaya metallurgiya, no. 1, 1966, 5-11

TOPIC TAGS: sintering, sintering temperature, eutectic, aluminum alloy, aluminum powder, copper alloy, powder alloy, powder metal, powder metal sintering

ABSTRACT: Experimental data have shown that during sintering of a mixture of aluminum and copper powders in vacuum, at temperatures exceeding the eutectic, the samples tested increased in volume. This increase was in direct proportion to the concentration of aluminum in the alloy. The increase in volume of the sintered samples is attributed to the swelling of copper particles due to the diffusion of aluminum into them and formation of cavities in place of the aluminum particles.

Orig. art. has: 5 figures.

[AM]

SUB CODE: 11/ SUBM DATE: 08Apr65/ ORIG REF: 017/ OTH REF: 007

Card 1/1 2C

L 32936-66 EWI(d)/EWI(m)/EWP(k)/EWP(h)/T/EWP(w)/EWP(v)/EWP(t)/ETI/EWP(1) IJP(c)	
ACC NR: AP6019931 SOURCE CODE: UR/0122/66/000/006/0061/0063	
EM/WW/JD/HW	
AUTHOR: Zalesskiy, V. I. (Doctor of technical sciences; Professor);	
Kozlov, Yu. I. (Candidate of technical sciences); Belen'kiy, V. A. (Engineer)	
Bandaro Strong Strate of Charles and the Strate of Charles	
ORG: none	
TITLE: The effect of elastic deformation of spinning machine and tools on the	
accuracy of closure size produced by roller spinning	
accuracy of croaute aree produced by forzer spring	
SOURCE: Vestnik mashinostroyeniya, no. 6, 1966, 61-63	
stal allow.	
TOPIC TAGS: carbon steel spinning, alloy steel spinning, copper alloy spinning,	
aluminum alloy spinning/St. 3, steel 20, Kh18N9T steel, Kh14G14N3T steel, L62 alloy,	•
AMg5 alloy	
the state of the s	
ABSTRACT: The effect of elastic deformation of spinning machine and tooks on the	
accuracy of the container closure edge produced from carbon steel (St.3, 20), high- alloyed steel (Kh18N9T, Kh14G14N3T), non-ferrous metals (L62, AMg5) and others by	
means of cold roller spinning has been investigated. Container closures 4-25 mm	
thick in diameters ranging from 1300 to 4000 mm were manufactured on a spinning	
machine (see Fig. 1) consisting of support 1, moving device 2, shaped spinning	
roller 3. pressure roller 4. and a 70-kw, 1460-rpm drive motor (5). It was found	
that the maximum axial roller displacement at a pressure of 60 kg/mm² was 0.45 mm,	
or 3.7-11.1% of the total tolerance for closure diameter prescribed by machine	
•	
Card 1/3 UDC: 621.983.44.07:621.753.1	